ATTACHMENT 1

TECHNICAL ASSISTANCE BASELINE

(E-mail to susan.meyer@srs.gov, fax to Susan Meyer at 803-725-4129, for the Lead Laboratory)

Tracking Number:	
Request Title:	Characterization of Soil, Concrete, and Groundwater at the Ashtabula Environmental Management Project
Contact Individual:	Tom Williams, 440-993-1944
Requesting Organization:	DOE Ashtabula
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Scope of Work:

Task 1: Technical Assistance Team Visit to AEMP

A technical team will visit the Ashtabula site during June. The first goal of the technical assistance visit is to develop a regulatory strategy to support remaining characterization and remediation activities dating from present to site closure under the structure of MARSSIM (Multi-Agency Radiation Survey & Site Investigation Manual) and NUREG-5849. The strategy should focus on defining the characterization and remediation strategies to insure multi-agency regulatory approval for future activities during the overall cleanup and closure.

Second, AEMP requests technical assistance in identifying the best available technologies to address specific project needs for subsurface access and characterization of radioactive and hazardous contaminants so that these technologies can be designed into an integrated suite of technologies. This goal of this activity is to identify and specify the best approach and technologies, the equipment and supplier sources and availability, the optimum closure schedule, and the life cycle costs to achieve closure.

Specific projects now scheduled at AEMP include:

Free release of cleared areas potentially contaminated with U and Tc-99. The areas include soil washing soil pads, the front parking lot area and concrete slabs remaining after D and D activities. The extent of contaminated soil is estimated to range from 10,000 to 70,000 tons. Innovative approaches such as the RSS or ITS should allow better delineation of the extent of contamination at the site reducing the contaminated footprint. The concrete slabs are currently in place and it is estimated that baseline removal and disposal will cost approximately 3M. Innovative characterization approaches/technologies that can be used to characterize the contamination beneath the pads such that the pad may be left in place could potentially reduce costs.

Characterization of remaining U in groundwater and sediments. Several hot spots have been identified in groundwater collected from the wells installed in the clayey sediments. Additional characterization will needed to delineate the extent of contamination.

Characterization/Cleaning of Underground Piping, Leak Detection. AEMP plans to spend significant resources to excavate all subsurface piping, sewer lines and drain line (estimated at approximately 9,000 linear feet of buried piping 2”-30” diameter. Approximately 4,000 is outside the contaminated footprint and may be subject to free release if abandoned and grouted in place if they are shown to meet site clean up criteria

Characterization of RMIDP corrective Action Management Unit (CAMU) contaminated with TCE, U and Tc-99 in soils and groundwater. The baseline corrective measures for the CAMU include excavation of TCE and radionuclide contaminated soils, ex-situ vapor stripping of TCE, offsite LLW disposal of contaminated soil, pump and treat for groundwater remediation. Currently, the TCE is being remediated by anaerobic bioremediation by injection of HRC. Research indicates that HRC may also be effective in reducing the radionuclide contamination. Several phases of sampling for performance assessment are scheduled during the next 18 months.

Task 2: Development of a Sampling and Analysis Plan. The focus of this task will be to develop a detailed sampling and analysis plan for the activities based on the recommendations of the Technical Assistance team.

Task 3: Consulting support to Ashtabula project managers on an as needed basis to guide ongoing activities.

Support:

What resource(s) have been selected?

Carol Eddy-Dilek, SRTC
Robert Johnson, ANL
Kevin Miller, EML

What resources were offered, but not selected?

Requested Start Date:

Requested Completion Date:

Estimated Cost:

Submitted By: Carol Eddy-Dilek